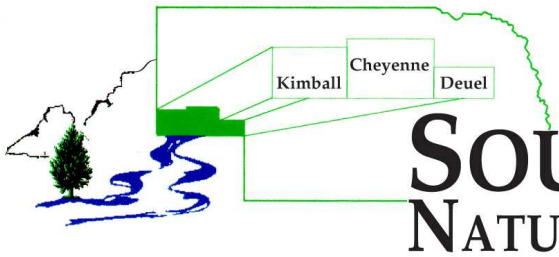

SOUTH PLATTE
NATURAL RESOURCES DISTRICT

Annual Report of Water Use Activities in the South Platte Natural Resources District

For the 2013 Basin-Wide Meeting

Report Years: 2012
Meeting Date: June 20, 2013

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ANNUAL REPORT OF WATER USE ACTIVITIES
IN THE SOUTH PLATTE NATURAL RESOURCES DISTRICT
TO MEET THE REQUIREMENTS OF THE INTEGRATED MANAGEMENT PLAN
FOR THE 2013 BASIN-WIDE MEETING

I. GENERAL SUMMARY

A. The following is a compilation of records, statistics and historic conditions of water use which have been tracked by the South Platte Natural Resources District (SPNRD) for 2012. All information supplied for this summary is available within a GIS database, complete with the locations and attributes. This report has been compiled for the June 20, 2013 Basin-Wide meeting.

II. INTRODUCTION

A. This report is intended to satisfy the SPNRD tracking and reporting requirements as described by the Monitoring and Studies section of the SPNRD Integrated Management Plan (IMP). The SPNRD will be responsible for tracking the following activities within the District on an annual basis: (1) certification of ground water uses and any changes to these certifications; (2) approved transfers, including all of the information provided with the application and used in the approval of the transfer; (3) any flow meter data collected; (4) any water well construction permits issued; (5) any other permits issued by the SPNRD; (6) any conditions associated with any permits issued; (7) information gathered through the municipal and non-municipal industrial accounting process; (8) any variances issued, including: the purpose, the location, any required offset, the length of time for which the variance is applicable and the reasoning behind approval of the variance; (9) any retirements of irrigated acres or other activities by the SPNRD for the purpose of returning to a fully appropriated condition; (10) information related to any water banking transactions; and (11) offsets provided for depletions resulting from increased consumptive use related to the above listed items.

The items tracked and reported will subsequently be used by SPNRD and the Department of Natural Resources (DNR) to measure the success of the controls, incentive measures and other action items contained in the IMP at meeting the goals and objectives of the IMP. Two evaluation processes for measuring success are described in the IMP. The first is an annual evaluation that will forecast the balance of depletions and accretions from the report year through 2048. The second evaluation occurs periodically and will be more robust, including updating and running ground water models. These evaluation processes will be carried out by the SPNRD and the DNR after the annual basin-wide meeting. The tracking, reporting, and evaluation processes are described in more detail in the Monitoring and Studies section of the IMP. In addition to the evaluation processes, the information that is tracked and reported will also be used by the State to help meet requirements of the Platte River Recovery Implementation Program (Program).

III. CERTIFIED ACRES

A. The SPNRD began certifying ground water irrigated acres in October 2002 and ended the certification process in the first half of 2006. The SPNRD certified irrigated acres are based on historically irrigated acres proven by Farm Service Agency (FSA) maps, tax records or other appropriate documentation.

The SPNRD has two types of certified acres; active and inactive. Inactive acres are any certified acres that belong to wells that are inactive and do not have a flow meter installed and do not receive an allocation. These unused wells are enrolled in a SPNRD program called Temporary Deferment. Active acres are all acres that are being irrigated or have a flow meter installed and therefore receive an allocation. Detailed data regarding the number of certified irrigated acres can be found in Appendix A. Map 1 provides a look at the state designated areas in the SPNRD.

IV. APPROVED TRANSFERS

A. For 2012, the District approved eleven (11) transfers. See Appendix B for a more detailed look at the transfers.

1. Two transfers that involved converting gravity or side roll irrigated tract to a pivot irrigated tract. These transfers resulted in no net increase in consumptive use or irrigated acres.
2. Five transfers that the SPNRD Board approved all dealt with industrial transfers. DNR approved Industrial Transfer Notices for three of these transfers, and two Permits to Transfer Ground Water to an Adjoining State for one transfer, and the final industrial transfer required no DNR permits/notices.
3. One approved transfer involved the movement of gravity irrigated acres from three separate tracts to a new location where a pivot will be installed.
4. Two transfers involved the movement of allocated acre inches from one tract to another. These transfers resulted in no net increase in total allocated inches between the combined tracts.
5. One approved transfer allowed an irrigator to add 25 new acres of irrigated production to an existing 15 certified acre tract for a total of 40 acres. In order to do this, the allocation for that producer on the 15 original acres was taken away. Then a transfer of 640 acre inches was allowed from a separate certified irrigated tract in the same subarea. This calculated out to a 4 inch allocation per acre for 2012 on the 40 acres. Then the 2013-2015 allocation calculates to 13.69 inches per acre over the 40 acres. The situation will need to be revisited in 2015 for the 2016-2018 allocation period.

V. WELL CONSTRUCTION PERMITS

A. Supplemental Ground Water Wells

1. The SPNRD issued no supplemental ground water wells.

B. Supplemental Surface Water Wells

1. The SPNRD issued no supplemental surface water well permits.

C. Replacement Wells

1. The SPNRD issued six replacement well permits. These are replacement wells for a well that has already been registered. Five of these replacement permits were for wells that were not producing the amount of water for which they were originally designed to pump. This could be due to several reasons such as casing collapse, pumping sand, water table drop or other reasons. The municipal well was replaced because of levels of ethylene dibromide (EDB) which were above the EPA maximum contaminant level.

D. Temporary Wells

1. The SPNRD issued no temporary well permits.

E. De-Watering Wells

1. The SPNRD issued no de-watering well permits.

F. Other Permits

1. The SPNRD issued no other well permits.

VI. VARIANCES

A. The SPNRD considers any request that is contrary to existing rules or regulations of the SPNRD or DNR as a variance. The SPNRD has a Variance Advisory Group that reviews and makes recommendations to the SPNRD Board of Directors on all irrigation related variances requested. All industrial and municipal variance requests go directly to the SPNRD Board of Directors. The Board reviews variances on a case-by-case basis, and as the elected governing body; the Board makes the final determination.

In 2012 there were three approved variances. Two approved variances allowed certified irrigated acres to be pooled before the end of the allocation period. The other variance allowed 25 new irrigated acres to be added to an existing 15 certified irrigated acres, increasing the entire certified tract to 40 acres in the fully appropriated area of the SPNRD. This variance involved the University of Nebraska Lincoln (UNL) Research and Extension farm facility and was granted the variance for “good cause shown”. UNL is researching drought resistant crops that could be grown in western Nebraska. See Appendix C for more information.

VII. MUNICIPAL AND INDUSTRIAL ACCOUNTING

A. The SPNRD began implementing the Industrial Accounting portion of the IMP in early 2010. Industrial wells were identified through the DNR registered well database and had

to pump greater than 50 gallons per minute. The SPNRD decided that in order for an industrial user to obtain a baseline certification they must have pumping history for every year during the five-year period from August 1, 2001 through July 31, 2006. Unless a variance is granted, a user that has not met this five-year pumping history criterion will be given a non-baseline certification, and that user will be responsible for offsetting the water use. The SPNRD allows industrial users who have a non-baseline certification to offset new or expanded uses through transfers including irrigation allocation(s), certified irrigated acres or the District's water bank.

Currently, the SPNRD has twenty-three (23) non-baseline certifications. Six of the twenty-three now have or could have an active industrial use and all water pumped will be offset by an existing irrigation allocation as agreed upon by the user and the SPNRD Board of Directors. See Appendix D table for a breakdown of non-baseline industrial uses.

In 2010, the SPNRD granted variances from the baseline certification process. These variances were made for established industries in the SPNRD who were unable to document water usage back to August 1, 2001. Seven of these industries exist within the SPNRD and they were required to install a flow meter and allowed to go forward three years from the time of installation. After three years a baseline will be issued based on the highest amount pumped during the three year period. This baseline will then be used as the amount pumped from August 1, 2001 until the time of establishment. After the baseline becomes established regular accounting will start from that point forward. See Appendix E for further information on active industrial variances.

Eight industries now have established baselines. These industries had records of water sales, tax receipts, flow meter readings, electrical power records, etc. which could be documented back to August 1, 2001 and used to establish the approved baseline. The baseline was determined by looking at the amount of water consumed by the industry between August 1, 2001 and July 31, 2006. The highest one year period (August 1st to July 31st) during this time was then used as that industry's baseline. All of these industries now currently have flow meters installed and those are read on a monthly basis. None of the previously mentioned industries discharge any water and all pumping is looked at as one hundred (100) percent consumptive use. The SPNRD tracks both industrial and municipal use on an August 1st to July 31st timeframe. See Appendix F for a list of existing industries and how their baselines compare with current pumping.

B. The SPNRD has certified baselines for all ten municipal water systems in the District. Municipal baselines include information from all wells the municipality uses that pump over 50 gallons per minute. The Chappell, Potter, and Sidney golf courses are all figured into their municipal baselines. Baselines were figured with the best known data at the time.

Sidney, Lodgepole, Chappell, and Kimball discharge some or all of their waste water back into Lodgepole Creek. The rest of the remaining municipalities' waste water is held in full retention lagoons.

Similar to industrial baselines, municipal baselines were calculated by documenting usage between August 1, 2001 and July 31, 2006. The highest one year period (August 1st to July 31st) during this time was then used as that municipality's baseline. Appendix G shows the municipal baselines, per capita use, and current year usage.

VII. IRRIGATION FLOW METER DATA

A. The SPNRD Board in January 2004 required flow meters to be installed on all irrigation wells. Flow meters were then installed incrementally through March 2009. All certified irrigated acres located in the Lodgepole Creek Valley have had an allocation in place beginning in 2007. The remainder of the District (Tablelands and South Platte Valley) has had an allocation in place since 2009.

Appendix H summarizes the allocation history of the SPNRD. See Map 2 for a breakdown of allocation amounts per subarea through the end of 2012. See Map 3 for a breakdown of allocation amounts per subarea for the upcoming 2013-2015 allocation period. Appendix I provides a detailed look at irrigation water usage for the entire SPNRD from 2009 through 2012.

IX. RETIRED ACRES AND OTHER STREAM FLOW ACCRETION ACTIVITIES

A. The SPNRD will implement measures within the first ten (10) year increment of the IMP to offset an average annual depletion rate of one hundred fifty (150) acre-feet to the North Platte River, four hundred (400) acre-feet to the South Platte River, and one hundred fifty (150) acre-feet to Lodgepole Creek for the period 2043-2048. These rates are the current best estimates and are subject to change based upon new data and information.

Through 2012, the SPNRD retired or decertified 1,377 acres equating to an estimated 548 acre-feet of water benefitting the Lodgepole Creek. These acres are all located in the overappropriated Lodgepole Creek Valley. See Appendix J for a complete breakdown of all retirement activities.

X. OTHER ACTIVITIES

A. The SPNRD has also begun work on the Lodgepole Creek Flow Evaluation study. This study will reexamine the SPNRD's depletions identified in the IMP to the South Platte River, Lodgepole Creek and North Platte River, the possible augmentation potential of Lodgepole Creek, historic literature review and a stream routing modeling package. This project is partially funded through the Interrelated Water Management Plan Program Fund and DNR.

B. The SPNRD and North Platte Natural Resources District (NPNRD) began work on a regional ground water model, Western Water Use Model (WWUM), for the two Districts in 2009. This regional model will build upon the modeling work that was completed during SPNRD and NPNRD's time spent participating in COHYST. The SPNRD and NPNRD share a ground water modeler, Thad Kuntz, P.G., with Adaptive Resources, Inc.

This project is partially funded through the Interrelated Water Management Plan Program Fund.

C. The SPNRD and NPNRD recently finalized a historic acres study, which looked at changes in irrigated and dryland acres and the crops planted throughout both Districts from 1953 through 2010. The resulting datasets will be inputted in the WWUM.

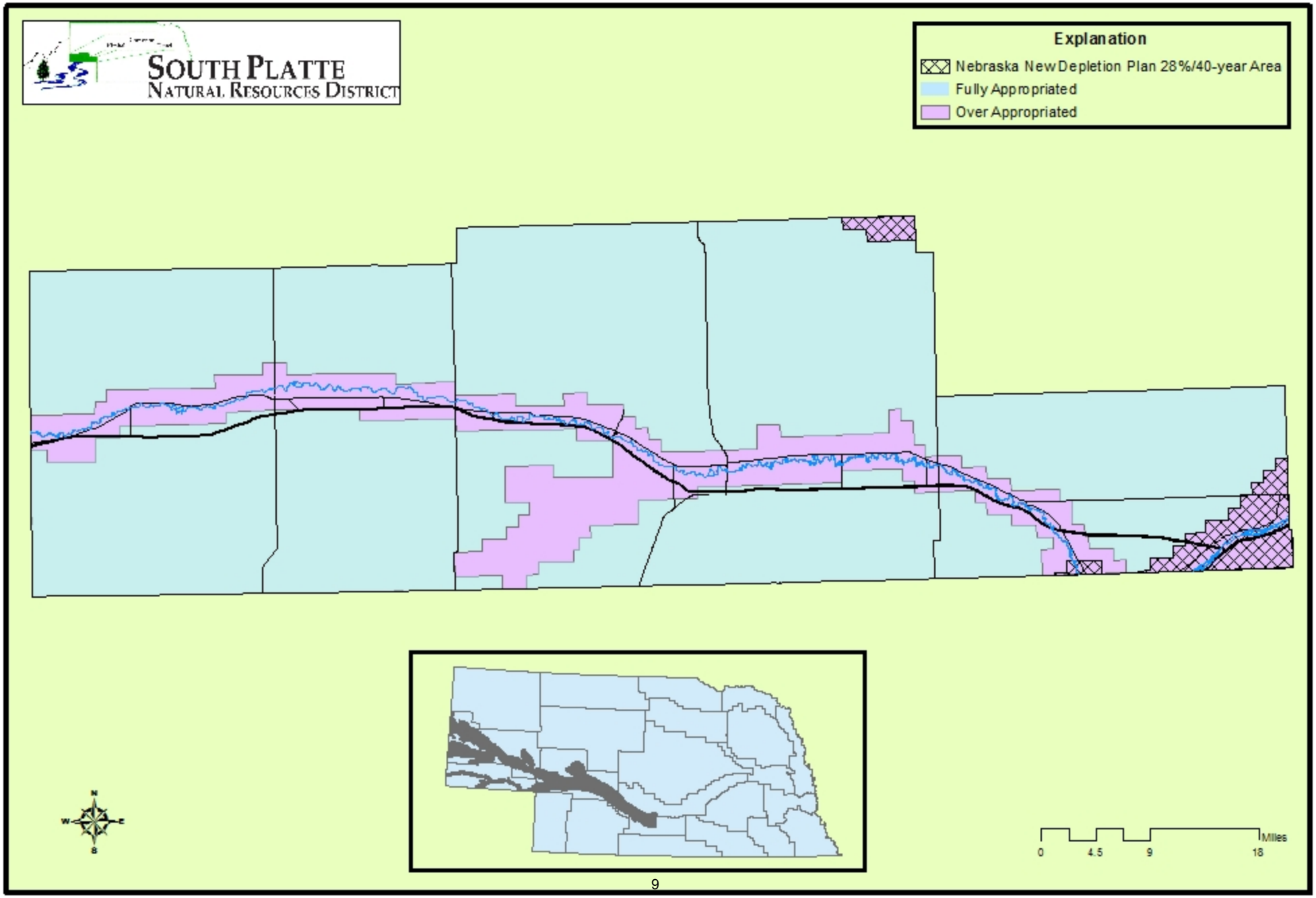
D. The SPNRD, TPNRD, and NDNR worked together on a recharge project with Western Irrigation District. As part of the Upper Platte River Recharge and Flood Mitigation and Demonstration Project: Part of the Conjunctive Management Toolbox – Technical Memorandum January 2013.

XI. GROUND WATER LEVELS

A. Tracking and reporting of ground water levels is not required in the IMP. The SPNRD measures 184 observation wells in the spring and fall annually as well as taking water levels on six recorder wells monthly. The SPNRD received a grant from the Nebraska Environmental Trust in 2010 to drill additional monitoring wells to improve the distribution of observation wells and improve our understanding of the District with inadequate coverage. Approximately, 16 new wells will be drilled by the end of 2014.

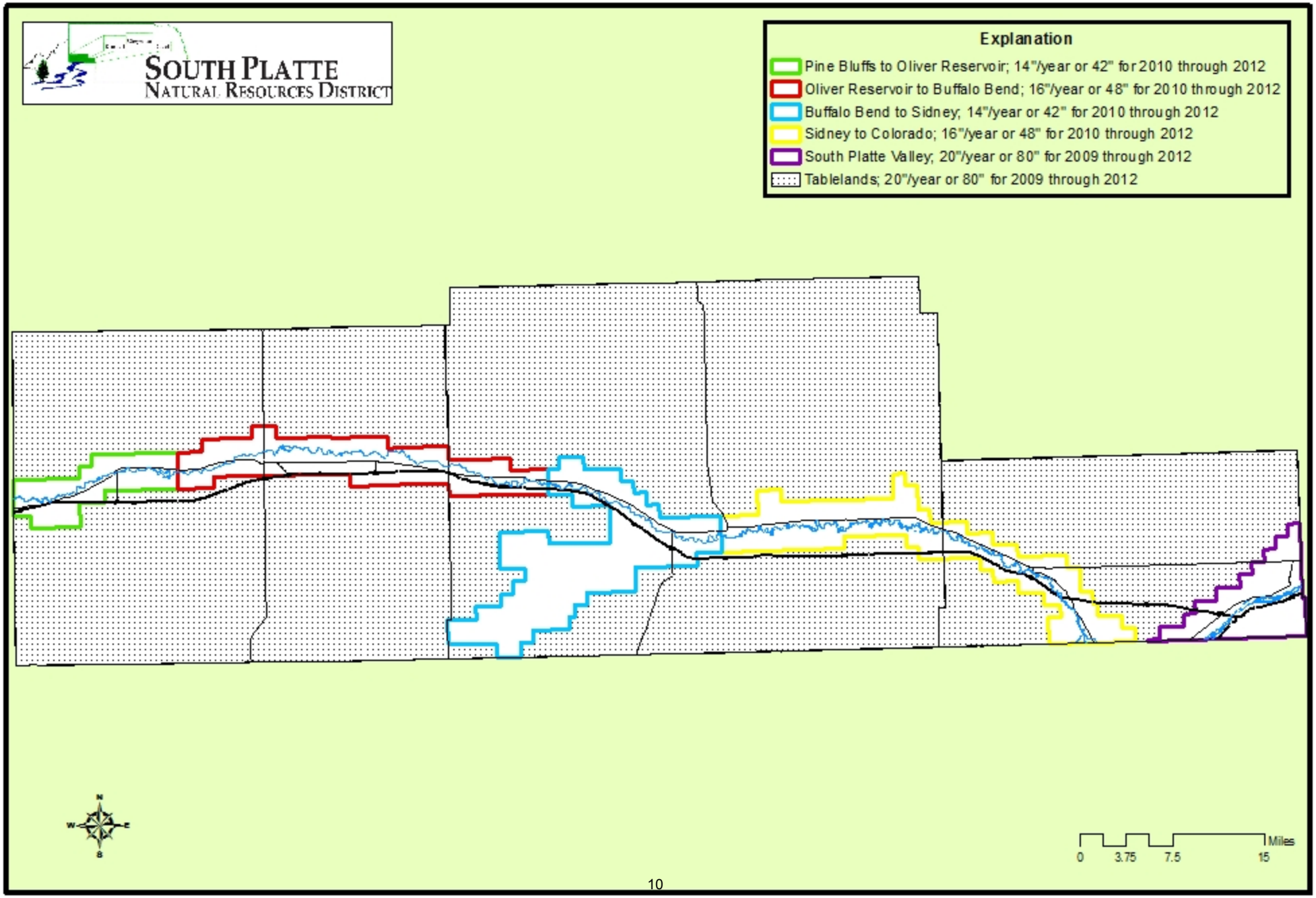
Map 1

Overappropriated, Fully Appropriated and Nebraska New Depletion Plan Areas



Map 2

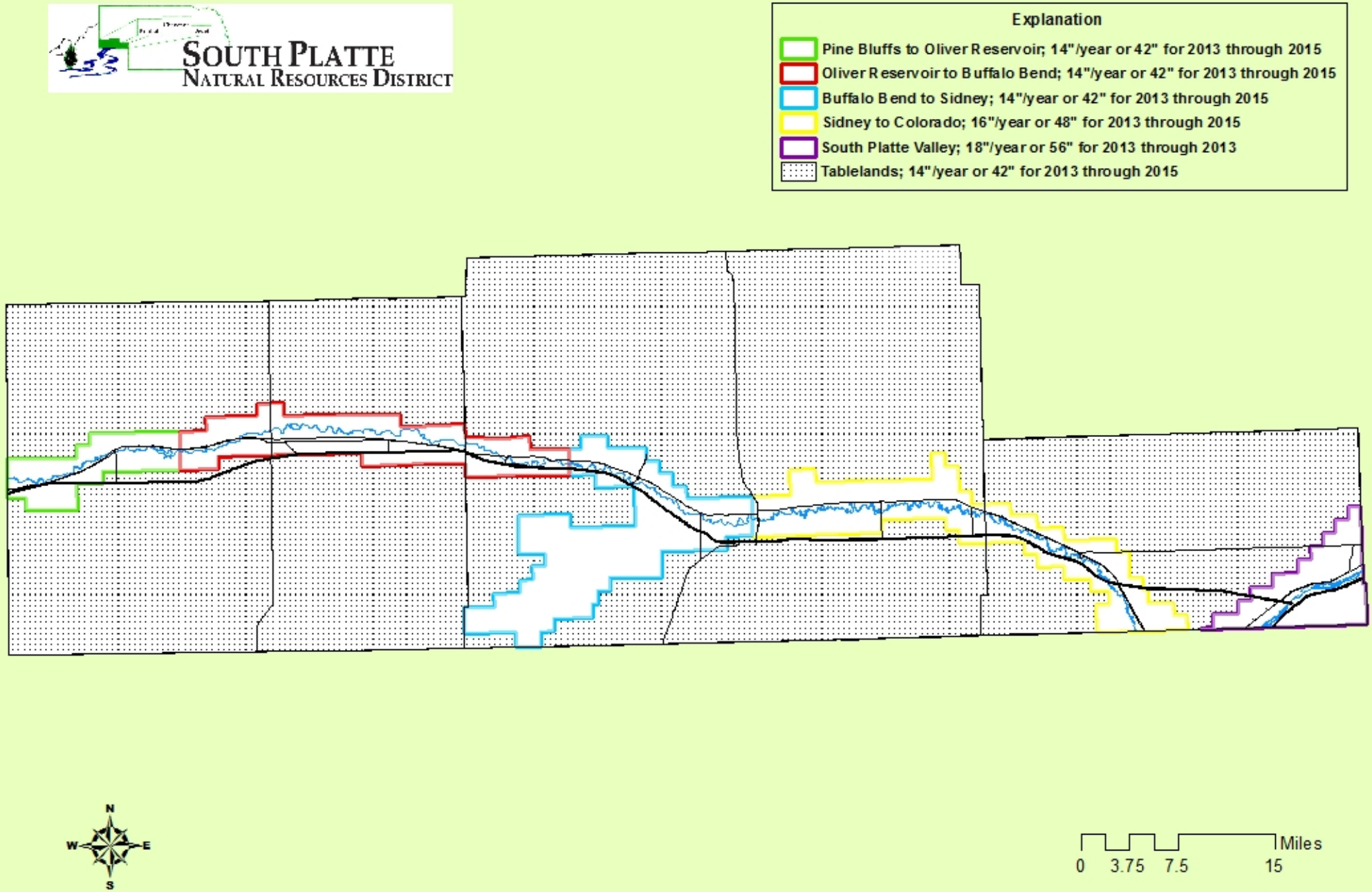
Allocation Subareas and Allocations Through 2012



Map 3

Allocation Subareas and Allocations for 2013 through 2015

SOUTH PLATTE
NATURAL RESOURCES DISTRICT



Appendix A

SPNRD Certified Irrigated Acres

	Kimball	Cheyenne	Deuel	Total
Active Overappropriated	16,226	18,743	14,647	49,616
Inactive Overappropriated	783	1,257	485	2,525
Active Fully-Appropriated	25,520	43,654	9,465	78,639
Inactive Fully-Appropriated	476	1,180	458	2,244
Total Certified	43,005	64,834	25,055	132,894
Total Cert. Acres in Nebraska New Depletion Plan 28%/40-year Area	0	56	10,577	10,633

Appendix B

2012 SPNRD Approved Transfers

NRD PERMIT #	TOWNSHIP	RANGE	SECTION	ACRES
	16	55	20	40 total
	15	55	7	(10.6)
	16	55	17	(11.6)
TR-AC-Young-11*	16	55	20	(17.8)
TR-IND-Kuehn	14	51	13	None
	15	55	8	
	15	55	8	
TR-OST-Act_Kimball	15	55	5	None
	13	45	23	
TR-AI-Derry	13	45	23	None
	13	42	1	None
TR-AI-MCArm	13	42	19	
	15	52	35	
TR-IND-Nelson	15	52	23	None
	15	52	35	
TR-IND-Sutton	15	52	15	None
	12	52	4	
	13	52	31	
TR-IND-Jaeger	13	52	32	None
PVT-24-Andersen	13	51	10	17.5
PVT-25-Husker Land Group, LLC	12	42	17	16.2
	15	50	24	
	15	50	35	25 new acres added
TR-AI-UNL-12	15	50	11 & 12	0 acres transferred

* The acres listed in parenthesis are the certified irrigated acres which were moved to the new location, which equal 40 total certified acres at the new location.

Appendix C

2012 SPNRD Approved Variances

NRD PERMIT #	TOWNSHIP	RANGE	SECTION	ACRES
Po-12-Steward	12	42	12	0
Po-12-SkoglundSimpson	12	42	12	0
Ac-12-UNL	15 15	50 50	24 35	25

Appendix D

SPNRD Non-Baseline Industrial Certifications

Well Reg. #	Legal	Use	Offset By
G-021823	Sec. 12 T16N R57W	Oil Fields	To Be Determined (TBD)
G-022051	Sec. 24 T13N R56W	Oil Fields	TBD
G-014546	Sec. 34 T14N R53W	Oil Fields	TBD
G-022281	Sec. 11 T14N R53W	Oil Fields	TBD
G-134511	Sec. 22 T17N R52W	Oil Fields	TBD
A-002770	Sec. 28 T15N R54W	Oil Fields	TBD
G-022347	Sec. 23 T13N R57W	Oil Fields	TBD
G-022048	Sec. 34 T17N R51W	Oil Fields	TBD
G-023351	Sec. 27 T14N R50W	Oil Fields	TBD
A-004712	Sec. 11 T14N R59W	Oil Fields	Irrigation allocation on tract 14N59W110001*
G-022050 G-022049	Sec. 19 T14N R55W Sec. 19 T14N R55W	Oil Fields	TBD
G-074242	Sec. 1 T12N R44W	Sand & Gravel Mining	TBD
A-004408	Sec. 28 T15N R55W	Road Construction	Irrigation allocation on tract 15N55W280004*
G-054269	Sec. 12 T13N R56W	TBD	Irrigation allocation on tract 13N56W120001*
G-019421 G-019973 G-019423	Sec. 21 T14N R55W Sec. 21 T14N R55W Sec. 21 T14N R55W	Oil Fields	TBD
G-154988 G-154989 G-154990	Sec. 6 T12N R43W Sec. 6 T12N R43W Sec. 6 T12N R43W	Sand & Gravel mining	TBD
G-021178	Sec. 23 T17N R52W	Oil Fields	TBD
G-039899	Sec. 5 T15N R52W	Oil Fields	TBD
G-021179 G-021621	Sec. 23 T17N R52W Sec. 23 T17N R52W	Oil Fields	TBD
G-146042	Sec. 13 T15N R56W	Sand & Gravel mining	Irrigation allocation on tract 15N56W230005*
G-030434 G-026066	Sec. 2 T12N R55W Sec. 2 T12N R55W	Oil Fields	TBD
G-041796	Sec. 13 T14N R51W	Sand & Gravel Mining	Irrigation allocation on tract 14N51W130001*
G-064556	Sec. 23 T15N R52W	Oil Fields	Irrigation allocation on tract 15N52W230001*

* Total combined usage of both industrial and irrigation water is reported as totals in the SPNRD Irrigation Water Usage Report found in Appendix I.

Appendix E

SPNRD Active Industrial Variances

Well Reg. #	Legal	Use	Baseline Gallons	2012 Gallons	Variance End Date
G-131190 G-083186	Sec. 14 T13N R45W Sec. 14 T13N R45W	Feedlot	TBD	23,299,200	February 2014
G-123698	Sec. 4 T12N R45W	Feedlot	TBD	TBD	November 2014
G-077801	Sec. 29 T14N R55W	Hazardous Waste Incinerator	TBD	34,336,000	January 2014
G-003169	Sec. 22 T13N R45W	Coop	TBD	27,888,918	February 2014
G-054015	Sec. 6 T15N R57W	Oil Fields	TBD	0	March 2014
G-002327	Sec. 2 T12N R42W	Aerial Spraying	TBD	451,033	November 2013
G-101853	Sec. 23 T16N R50W	Coop	TBD	434,211	December 2013

Appendix F

2012 SPNRD Active Industries with Baselines

Well Reg. #	Legal	Use	Baseline Gallons	Baseline Year	2012 Gallons*
G-157945 G-157946 G-031351	Sec. 5 T13N R50W Sec. 5 T13N R50W Sec. 5 T13N R50W	Livestock	299,315,624	2005-2006	133,932,826
G-091299	Sec. 30 T16N R55W	Sand & gravel mine	22,154,542	2001-2002	0
G-013034	Sec. 19 T15N R55W	Oil fields	88,605	2004-2005	0
G-051806 G-058832	Sec. 32 T14N R55W Sec. 6 T13N R55W	Oil fields, roads, wind turbines	2,203,750	2003-2004	6,662,847**
G-117269	Sec. 5 T14N R52W	Water well drilling	655,763	2002-2003	648,987
G-059572 G-119599	Sec. 15 T13N R51W Sec. 11 T14N R51W	Oil fields	2,333,334	2005-2006	1,505,726
G-041367***	Sec. 23 T15N R56W	Sand & gravel mine	5,650,134	2005-2006	8,297,807
G-058331 G-064838	Sec. 34 T15N R55W	Golf Course	189,569,845	2001-2002	114,391,256

* 2012 Gallons are calculated from the industrial water year of August 1, 2011 through July 31, 2012.

** These wells are in the fully appropriated area of the District and are still below their five year baseline.

*** Well G-041367 received a variance to establish a partial baseline because pumping did not occur during all five baseline years. If the baseline amount of 5,650,134 gallons is exceeded, all offsets will be automatically deducted from certified irrigated tract #15N56W230005. See 2/5 variance request in the 2010 report.

Appendix G

SPNRD Municipal Baselines and 2012 Usage

Municipality	DNR Transfer Permit Gallons	Baseline Gallons	Baseline Year	Baseline Per Capita Use* gallons/ person/ day	2012 Gallons**	2011 Per Capita Use*** gallons/ person/day
Big Springs	164,574,899	154,986,748	2002-2003	1,016	65,311,000	440
Bushnell	N/A	13,092,375	2001-2002	221	9,634,178	213
Chappell	N/A	116,968,411	2001-2002	326	97,412,508	287
Dalton	N/A	68,634,300	2001-2002	566	30,879,600	269
Dix	N/A	72,023,100	2001-2002	739	37,138,400	399
Gurley	N/A	45,332,050	2001-2002	545	37,807,985	484
Kimball	N/A	243,050,000	2001-2002	260	195,848,421	215
Lodgepole	N/A	53,443,494,	2001-2002	421	45,280,630	390
Potter	N/A	135,421,817	2001-2002	951	109,517,894	890
Sidney	1,300,000,000	633,042,003	2001-2002	276	589,273,000	239

* Based on 2000 Census population numbers

** Based on August 1, 2011 through July 31, 2012 water year

*** Based on the 2010 census population numbers

Appendix H

SPNRD Irrigation Allocation History

Allocation Subarea	2007-2009	2009-2012	2010-2012	2013-2015
Pine Bluffs to Oliver Reservoir	48"/acre		42"/acre	42"/acre
Oliver Reservoir to Buffalo Bend	54"/acre		48"/acre	42"/acre
Buffalo Bend to Sidney	48"/acre		42"/acre	42"/acre
Sidney to Colorado	54"/acre		48"/acre	48"/acre
South Platte Valley		80"/acre		54"/acre
Tablelands		80"/acre		42"/acre

Appendix I

SPNRD Irrigation Water Usage Report

Districtwide Water Usage

Analysis Period: 2009 - 2012

	2009	2010	2011	2012	Total
Weighted Avg. Inches Pumped*	8.39	9.99	9.78	17.48	45.64
High	110.86	49.99	30.92	62.49	
Median	7.38	9.52	9.20	17.33	
Total Acre-Feet Pumped	81,925.32	98,665.21	97,217.53	178,373.80	456,181.86
Total Acres-Inches Pumped	983,103.82	1,183,982.50	1,166,610.39	2,140,485.65	5,474,182.36
Total Acres-Inches Pumped ÷ By Total Acres	7.67	9.24	9.10	16.66	42.67
Total Number of Inactive Certified Irrigated Acres***	4,723.6	4,723.6	4,638.5	4,414.0	
Total Number of Active Certified Irrigated Acres	128,172.2	128,143.9	128,229.1	128,478.5	
Total Number of Certified Irrigated Acres	132,895.8	132,867.5	132,867.6	132,892.4	

Range of Inches Used:

Scale	2009	2010	2011	2012
0 - 4	26%	19%	17%	8%
4.01 - 8	29%	21%	24%	4%
8.01 - 12	27%	30%	32%	11%
12.01 - 16	13%	20%	17%	18%
16.01 - 20	3%	7%	7%	25%
20+	2%	3%	3%	34%

Scale	2009 - 2012
0 - 16	11%
16.01 - 32	16%
32.01 - 48	33%
48.01 - 64	28%
64.01 - 80	10%
80+	2%

Crop Water Usage:**

Crop	2009 Avg. In.	2009 Percent of Acres	2010 Avg. In.	2010 Percent of Acres	2011 Avg. In.	2011 Percent of Acres	2012 Avg. In.	2012 Percent of Acres
Alfalfa	9.4	10.1%	10.6	10.3%	10.9	7.3%	20.8	8.3%
Beans	6.3	6.4%	8.8	7.3%	7.8	6.2%	14.9	9.1%
Corn	9.9	38.6%	11.5	41.1%	10.6	50.3%	18.4	53.1%
Fallow	0.0	0.0%	0.0	1.3%	0.0	0.7%	0.0	0.5%
Hay	6.0	3.1%	6.1	2.5%	6.6	2.8%	15.2	5.1%
Other	2.2	0.3%	7.3	0.1%	1.5	0.3%	1.7	0.4%
Pasture	7.0	4.8%	6.0	4.6%	7.6	3.8%	11.3	4.5%
Potatoes	9.6	0.1%	0.0	0.0%	14.0	0.1%	23.9	0.1%
Small Grains	4.1	27.0%	5.3	23.2%	5.4	20.3%	10.3	12.8%
Sugar Beets	11.7	5.5%	15.7	4.7%	13.5	5.2%	21.4	5.1%
Sunflowers	4.4	4.0%	6.8	4.7%	5.0	2.5%	10.1	1.0%
Unknown	0.1	0.1%	0.0	0.0%	0.0	0.4%	0.0	0.0%
All Crops	7.6	100%	9.2	100%	9.1	100%	16.7	100%

* Calculated by removing the high use tract and the tracts that did not use any water, then calculated the usage of all tracts individually and averaged those numbers.

** Crop Water Usage is based off of the number of acres per crop, which are based on field observations taken at the time flow meters are read. Crop Water Usage could be subject to change as more accurate crop-acre information becomes available.

***Inactive Certified Irrigated Acres are acres enrolled in Temporary Deferment or incentive programs that offer incentives to discontinue irrigation use on a temporary basis.

Appendix J

SPNRD Water Acquisitions and Water Banking Activities Through 2012

Retired Acres and Other Stream Flow Accretion Activities

Landowner	Decertified Acres	Stream Depletion (%)	Acre Feet Accrued	Township	Range	Section	Date Retired	County	Subarea	Appropriation
Terrell Wiekhorst	43.1	18	4.6	14	52	5	9/6/2007	Cheyenne	ORBB	OA
Cliff Farms Inc.	50	32	12.2	14	52	3	9/17/2007	Cheyenne	ORBB	OA
Robert & Connie Runge	75.2	7	2.7	13	51	10	9/27/2007	Cheyenne	SIDCO	OA
Marleen E. Evans Et al	237.8	57	118.9	13	50	4	10/22/2007	Cheyenne	SIDCO	OA
Marleen E. Evans Et al	23.8	71	26.7	14	50	33	10/22/2007	Cheyenne	BBSID	OA
Fornstrom Farms LLC	109.9	23	14.1	14	59	12	11/1/2007	Kimball	PBOR	OA
Dale Dedic	29.8	25	6.2	14	52	4	12/4/2007	Cheyenne	ORBB	OA
Elizabeth Burback	18.3	25	3.8	15	55	20	12/5/2007	Kimball	ORBB	OA
Peetz Land & Cattle Co	22.9	31	4.7	14	49	35	3/14/2008	Cheyenne	SIDCO	OA
B5 Farms LLC	10.1	78	4.9	12	45	13	4/9/2008	Deuel	SIDCO	OA
Paul & Frances Fornander	13.3	72	14.5	13	45	22	7/1/2008	Deuel	SIDCO	OA
Harvey Jung	8.7	7	1	14	53	2	7/10/2008	Cheyenne	ORBB	OA
Robert Kurz	271.5	57	88.3	13	50	4	10/23/2008	Cheyenne	SIDCO	OA
Venture Development Group Inc.	66	66	32.4*	14	49	32	7/14/2009	Cheyenne	BBSID	OA
Alan Adamson	62.6	70	63	15	57	31	9/22/2009	Kimball	PBOR	OA
Sharon A, James C. & Donna Johnson	5.6	10	0.44	15	53	34	7/1/2010	Kimball	ORBB	OA
Raymond Kuehn	83.2	73.5	49.2	14	51	12	7/1/2010	Cheyenne	BBSID	OA
Raymond Kuehn	42.3	68	23.1	14	51	13	7/1/2010	Cheyenne	BBSID	OA
Scott & Susan Lockwood	43.9	92.5	32	15	57	36	9/1/2010	Kimball	PBOR	OA
Don & Janelle Frerichs	59.6	75	30.8	14	48	27	9/22/2011	Cheyenne	SIDCO	OA
Barton Terman	99	10	14.5	14	52	34	12/28/2011	Cheyenne	BBSID	OA

*Accrual to SPNRD due to municipal growth, the SPNRD Board of Directors will decide what percentage of Acre-Feet the City of Sidney will receive.

Total Acre Feet Accrued = 548 Total Number of Acres Decertified = 1,377 Average Stream Depletion = 46%

Average $/AF Accrued (Federal dollars plus SPNRD dollars): $3,069 Average $/Acre Retired (Federal dollars plus SPNRD dollars): $609